# JAMES F. TAYLOR DRIVE DITCH IMPROVEMENTS - PHASE 2 TOWN OF RIDGELAND RIDGELAND, SOUTH CAROLINA







<u>MAYOR</u> JOSEPH N. MALPHRUS, JR <u>MAYOR PRO TEMPORE</u> TOMMY RHODES

COUNCIL MEMBERS JOSEPHINE BOYLES CHRIS DUBOSE

TOWN ADMINISTRATOR

GRADY WOODS

## PREPARED BY



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### MARCH 2019

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	Signature Michael R. Klink, P.E.	SC Professional Eng. # 28229	Date		
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#### GENERAL NOTES:

- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM SURVEY PERFORMED BY TGS LAND SURVEYING JOB NUMBER 10070T-17. HORIZONTAL DATUM BASED ON NAD 83 AND VERTICAL DATUM BASED ON NGVD 29 DATUM. THE SURVEY WAS UPDATED BY FOUR WATERS ENGINEERING AT THE COMPLETION OF PHASE 1 CONSTRUCTION.
- 2. THE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SCHEDULED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- ALL CONSTRUCTION THAT PERTAINS TO WATER AND SEWER SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS, LATEST EDITION. ALL 3. CONSTRUCTION THAT PERTAINS TO ROADWAY AND DRAINAGE THAT IS NOT SPECIFICALLY NOTED OR DETAILED IN THE CONSTRUCTION DRAWINGS SHALL CONFORM TO THE SCDOT SPECIFICATIONS. LATEST EDITION
- 4. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULT OF SUCH INVESTIGATIONS, AS MAY BE SHOWN ON THE CONTRACT DRAWING, ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARK-OUT SERVICE PROVIDER AND VERIFY AREA OF ALL UTILITIES (AS NECESSARY) PRIOR TO COMMENCING WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES, CONDUITS, STRUCTURES, EQUIPMENT, FOUNDATIONS, PIPE, 5. ETC. AS NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S OF THE UTILITY 72 HOURS PRIOR TO STARTING WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME, VARIOUS UTILITIES MAY NEED TO BE RESET BY THE AFFECTED UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE UTILITY COMPANY TO AVOID DELAYS. NO EXTENSION OF TIME WILL BE PROVIDE DUE TO THE LACK OF COORDINATION BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS WITHIN SCDOT AND TOWN R.O.W.'S AND EASEMENTS. ALL SURVEY LAYOUT VERIFYING THE EXACT LOCATION OF THE 6. R.O.W.'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR SAME SHALL BE INCLUDED WITHIN THE VARIOUS BID ITEMS.
- THE CONTRACTOR SHALL TAKE CARE IN MAINTAINING ALL LANDSCAPING AND YARD STRUCTURES WITHIN THE CONSTRUCTION LIMITS AS NECESSARY PER PROJECT. WHEN RELOCATION IS NECESSARY 7. OR WHERE ANY DAMAGE IS DONE TO SAID ITEMS THEY SHALL BE RESTORED BY THE CONTRACTOR, AT HIS EXPENSE, TO THE SATISFACTION OF THE TOWN ENGINEER
- ANY CONCRETE DRIVEWAY, WALKWAY, OR CURB WHICH IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER TO BE REPLACED, BUT IS REMOVED, MISALIGNED OR DAMAGED AS A RESULT OF 8. THE CONTRACTOR'S CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PER DETAILS IN THE CONSTRUCTION DRAWINGS OR (IF NOT INDICATED IN THE CONSTRUCTION DRAWINGS) SCDOT STANDARDS AT NO ADDITIONAL COSTS TO THE TOWN.
- 9. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS DISTURBED WITH IN THE PROJECT LIMITS.
- 10. IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE TOWN SHALL BE INFORMED IN ADVANCE. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPERLY CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL STATE AND LOCAL REGULATIONS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED. NIGHT WORK MAINTENANCE OF TRAFFIC INCLUDING PEDESTRIAN MUST BE SET UP AND MAINTAINED DURING NIGHT WORK AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. NO EXCAVATION AREAS ARE TO REMAIN OPEN OVERNIGHT. BITUMINOUS STABILIZED BASE COURSE SHALL BE PLACED IN ALL TRENCH AREAS WITHIN THE 11. ROADWAY AT THE END OF EACH DAYS WORK
- 12. IN THE EVENT A SITUATION ARISES IN WHICH MATERIALS NOT SPECIFIED ON THE PLANS ARE TO BE USED FOR EXTRA WORK, THEN THE MATERIALS SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS AND SCDOT SPECIFICATIONS FOR ROADWAY AND DRAINAGE SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE TOWN IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. 13. THE CONTRACTOR CANNOT DEPOSIT ANY OF THE EXCESS MATERIALS WITHIN TOWN LIMITS WITHOUT THE EXPRESS PERMISSION OF THE TOWN. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REGULATIONS REGARDING SAME
- 14. ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
- PROTECTION OF EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TOWN ENGINEER SHALL DETERMINE IN THE FIELD WHICH TREES 15. REQUIRE TREE PROTECTION PER PROJECT AS NECESSARY. NO CONSTRUCTION EQUIPMENT OR SUPPLIES SHALL BE STOCKPILED OR STORED WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
- 16. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR. AT NO ADDITIONAL COST TO THE TOWN.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED OR DIRECTED BY THE TOWN ENGINEER. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS 17. SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCDOT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PAVEMENT MARKINGS. CONTRACTOR 18. SHALL NOTIFY TOWN ENGINEER AND SCDOT (AS NECESSARY) WHEN TRAFFIC STRIPES AND PAVEMENT MARKINGS HAVE BEEN LAID OUT PRIOR TO PAINTING. THE TOWN ENGINEER AND/OR SCDOT (AS NECESSARY) WILL INSPECT AND APPROVE LAYOUT PRIOR TO CONTRACTOR PAINTING TRAFFIC STRIPES AND PAVEMENT MARKINGS
- THE CONTRACTOR SHALL PERFORM ONLY THE AMOUNT OF WORK WHICH CAN BE COMPLETED THE SAME DAY. THE ENTIRE ROADWAY SHALL BE OPENED TO TRAFFIC AFTER WORK HOURS UNLESS 19. APPROVED BY TOWN AND SCDOT (IF SCDOT ROW). SCDOT TEMPORARY PAVEMENT OR APPROVED SURFACE SHALL BE PLACED IN CONSTRUCTION AREAS TO PROVIDE A SMOOTH, SAFE SURFACE FOR VEHICULAR TRAFFIC. THE COST FOR TEMPORARY PAVEMENT SHALL BE INCLUDED IN UNIT PRICE BID FOR VARIOUS CONSTRUCTION ITEMS.
- 20. IN ADDITION TO ALL GRADING ACTIVITIES, THE CLEARING SITE ITEM SHALL INCLUDE THE REMOVAL OF EXISTING TREES, SHRUBS, CURBING, SIDEWALKS, FENCES, DRIVEWAYS, WALLS, PIPES, INLETS, RESIDENTIAL WALKWAYS, ASPHALT, RIP-RAP, AND OTHER FEATURES WHICH NEED TO BE REMOVED AND/OR RESET IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS. LAWN SPRINKLER SYSTEMS IF APPLICABLE TO PROJECT SHALL BE REMOVED AND REPLACED WHERE NECESSARY BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND SHALL BE PAID UNDER THE CLEARING SITE ITEM
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO FACILITATE CONSTRUCTION. 21.
- 22. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE TOWN ENGINEER AND REQUIRE APPROVAL PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ALLOW AT LEAST 7 BUSINESS DAYS FOR ENGINEER CUT SHEET REVIEW FOR EACH SUBMITTAL.
- 23. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN. 24.
- THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT. 25.

- DURING CONSTRUCTION
- EACH DAY'S WORK PER SCDOT STANDARDS.
- DETERMINED BY SCDOT SPECIFICATIONS.



NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC (AS NECESSARY)

1. ALL DEVICES AND PROCEDURES FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH SCDOT. THE CONTRACTOR SHALL PLAN AND CARRY OUT HIS WORK TO PROVIDE FOR THE CONVENIENT AND SAFE PASSAGE OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT STREETS.

2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER. DURING THE COURSE OF CONSTRUCTION

3. DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE EMERGENCY VEHICLES AT ALL TIMES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS

5. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY DETOURS NECESSARY WITH THE POLICE, TOWN ENGINEER AND/OR FIRE DEPARTMENTS PRIOR TO CONSTRUCTION. ALL EMERGENCY VEHICLES MUST HAVE ACCESS TO STREETS AT ALL TIMES, ALL RESIDENTS MUST HAVE ACCESS TO THEIR HOMES AT ALL TIMES, AND ALL BUSINESSES MUST HAVE ACCESS TO ALLOW CUSTOMERS TO BUSINESSES AT ALL TIMES THE BUSINESSES IS IN OPERATION OR REQUIRES ACCESS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE ROADWAY TO A SAFE CONDITION AT THE END OF

6. ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH SCDOT. EXACT LOCATION OF STREET SIGNS AND PAVEMENT MAKRINGS SHALL BE



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	Signature Michael R. Kink, P. E. SC Professional Erg. # 22229 Date
	E DESCRIPTION BY BY DESCRIPTION
R MINIMUM) STONE. JRING NSTRUCTION EXISTING CONCRETE CURB AND GUTTER. INSTALLED DURING PHASE 1 CONSTRUCTION	GELAND H CAROLINA EH CAROLINA EE 1 2 2 2 2 4 4 4 6 0 0 0 0 0 0 0 0 1 0 1 5 6 6 6
EXISTING TENCATE MIRAFI FW700 OR APPROVED EQUAL (TYP) -12" COMPACTED SUBGRADE COMPACTED TO 98% DENSITY. INSTALLED DURING PHASE 1 CONSTRUCTION E FABRIC LENGTH FOLDED AND PLACED BEHIND CONCRETE	TOWN OF RID RIDGELAND, SOUTI PHASI EXISTING CONDI' JAMES F. TAYLC DITCH IMPROVEMEN
FUTURE PHASE. TOTAL GEOTEXTILE FABRIC LENGTH 25 E FABRIC STRIPS SHALL HAVE A MINIMUM OVERLAP OF TWO REVETMENT MATERIALS SHALL BE USED AS REVETMENT LAYER F GRADE AND NEW REVETMENT PLACED ON TOP OF EXISTING MATERIALS	DESIGN DRAWN MRK SLD JOB 17-1007.011 NUMBER 17-1007.011 ISSUE MARCH ISSUE BID
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\_12" COMPACTED SUBGRADE COMPACTED TO 98% DENSITY





TE NOTES:			
RAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSI $^{-7}$ 4,000 PSI. MAXIMUM W/C RATIO = 0.40.	VE	nature	Ð
E CONSTRUCTION SHALL CONFORM TO ACI 318 BUILDING COE S FOR STRUCTURAL CONCRETE.	DE	Sign	Dat
L BE TYPE II OR AS APPROVED BY THE ENGINEER.			
HALL HAVE A MINIMUM SLUMP OF 3" AND MAXIMUM SLUMP C	F 5".		
STEEL SHALL BE #4 AND #5 BARS AND PLACED IN THE LOC HESE PLANS.	ATIONS		
BARS ARE TO BE PLACED AT A MIN. DEPTH OF 3" COVER F $\ensuremath{\bar{F}}$ FACE OF THE CONCRETE.	ROM	NILLION	
STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO A A934, GRADE 60.	ASTM	DESCH	
CING STEEL INTERSECTIONS AND LAPS (IF NECESSARY) SHALL HER AND INSTALLED IN ACCORDANCE WITH THE GUIDELINES IN THE MANUAL OF STANDARD PRACTICE - CONCRETE STEEL INSTITUTE, LATEST EDITION.	BE		
IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL		N CHKD BY	
EXPOSED CONCRETE EDGES SIMILAR TO EXISTING STRUCTUR	Ε.	DRWI BY	
		DATE	
AD NOTES:		REV NO 3	6 5
SHALL BE ZZ14–770 GRADE 60 SUPPLIED BY JD FIELDS AND R ENGINEER APPROVED EQUAL.		1	
ESCRIPTIONS OF SHEET PILE DRIVING EQUIPMENT INCLUDING, XTRACTORS, PROTECTION CAPS AND OTHER INSTALLATION ICES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO WORK.			
S PLUMB AND TRUE TO THE ELEVATIONS SPECIFIED. PILES BE DRIVEN MORE THAN 1/2" PER FOOT OUT OF PLUMB IN TH EL WALL, NOR MORE THAN 1/16" PER FOOT "OUT" OF PLUMB AR TO THE PLANE OF THE WALL, NOR MORE THAN 1" PER F PLUMB PERPENDICULAR TO THE PLANE OF THE WALL.	IE 3		
N OUT OF INTERLOCK WITH ADJACENT PILES OR OTHERWISE IALL BE REMOVED AND REPLACED BY NEW PILES AT THE IS EXPENSE.		GELAND TH CAROLIN E 2	L レビー
DIAMETER ONE-WAY FILTER/CHECK VALVES AT 5' O.C. AT TH SPECIFIED ON THESE PLANS.	IE	of RID , SOUT IAS	
ERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION	NS.	DPH F	
MAGED AS THE RESULT OF HANDLING, DRIVING, PLACEMENT OTHER CONSTRUCTION SHALL BE REPLACED AT NO ADDITION. E OWNER.	OF AL		
DESTRUCTION IS ENCOUNTERED THAT RESULTS IN UNEXPECTED PENETRATION OR PILE TIP ELEVATION THE CONTRACTOR WILL D REMOVE THE OBSTRUCTION, EXTRACT, REPOSITION, AND SHEET OR SLIGHTLY CHANGE THE ALIGNMENT. CONTRACTOR DIATELY NOTIFY ENGINEER OF ANY SHEETING THAT CANNOT B HE SPECIFIED DEPTH.	) BE ? E	0	2
NOTES:			
RIPRAP SHALL CONSIST OF GRADED QUARRY STONE AND IFORM TO SCDOT CLASS "B" GRADATION REQUIREMENTS.		AWN LLD 77.011	ę _
ALL BE SELECTIVELY PLACED IN AN ORDERLY MANNER TO OD INTERLOCKING ACTION BETWEEN INDIVIDUAL UNITS.		R 17-100	BI 20
ALL NOT BE DROPPED FROM A HEIGHT GREATER THAN 12 R PUSHED DOWN THE SLOPE.		DESIG JOB NUMBE ISSUE	DATE
CEMENT SHALL BEGIN AT THE BOTTOM OF THE SLOPE AND JPSLOPE TO PRODUCE A LAYER WITH MAXIMUM ING OF STONES AND MINIMUM VOIDS.			2250 COM
NES SHALL BE PLACED SO THAT THE LONG AXIS OF THE PERPENDICULAR TO THE REVETMENT SLOPE.	<u>6</u> /18		RIDA 3: /ENG.C
ALL BE "SEATED" ON THE EXISTING STONE TO AVOID ROCKING, AND DISPLACEMENT DURING CONSTRUCTION.	WDE WDE 5/11		2H, FLO VW 4W
OR SHALL "RE-WORK" EXISTING STONES AS NECESSARY IN ACHIEVE MAXIMUM INTERLOCK WITH NEW RIPRAP.	ED BY: BY: D BY: - DATE		E BEAC 36 WV
OR SHALL SELECT AND USE A MACHINE CAPABLE OF G THE STONES TO THEIR FINAL POSITION BEFORE RELEASE, HE TOE.	DESIGNE DRAWN CHECKE DATE: REV.		<pre></pre>
ACE OF THE COMPLETED REVETMENT SHALL BE UNIFORM IN CE AND BE FREE FROM HUMPS OR DEPRESSIONS.	Se moo		
OR SHALL ENSURE THAT RIPRAP IS PLACED IN A MANNER S NOT DAMAGE THE NEW WALL OR EXISTING CONSTRUCTION.	Chureness ney Enginet annon Street ton, SC 2940: 974–5621 sneyengineers.		324 6th AVE 1 904-414-240
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